

Gentex

PLAINTIFF'S
EXHIBIT
DUP-1755

January 19, 1981

Mr. D. Meyer
Dupont Co.
Louviers BW39
Wilmington, DE 19898

Dear Mr. Meyer:

Thank you for your interest in Gentex Preox™ fabric. We've enclosed our product introduction brochure, which we hope will answer some of the technical questions you might have.

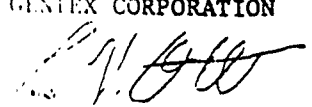
Preox fabric was introduced as an asbestos equal for safety garments at the National Safety Congress in October, 1979, and since then it has been evaluated for a variety of asbestos replacement applications - welder's clothing, welding blankets, gloves, and insulating materials. We believe we've only begun to scratch the surface of potential applications for Preox use. Gentex offers Preox as an aluminized fabric and as a rubber-coated fabric in various weights engineered to your specific application. These fabrics are sold directly to garment manufacturers, and we've included a list of our O.E.M. customers for you to contact and specify your request for Gentex Preox.

With this new product introduction, Gentex also wishes to introduce itself not only as the largest aluminizer of fabrics for protective clothing garments in the world, but also as a full service Textile Engineering firm ready to assist you in all of your textile material requirements. Because of our size, we can offer specialized, personalized textile service to you for all of your textile needs.

Again, thank you for contacting us. If Gentex can assist you further, please let me know.

Very truly yours,

GENTEX CORPORATION


Louis V. Ott
Sales Manager
Textile Business Group

LVO/14

Preox™ is a registered trademark of the Gentex Corporation

DUP 1012020

DM 806

DU 053314



A Best Products Co.
3865 W. 150th St.
Cleveland, OH 44111
Mr. Charles Grossman
216-941-9400

Robin Brothers, Inc.
2241 S. Halstead
Chicago, IL 60608
Mr. Maury Rubin
312-942-1111

Advance Glove Co.
901 W. Lafayette Blvd.
Detroit, MI 48226
Mr. Fred Denault
313-962-3444

Encon Mfg. Co.
4914 Dixon St.
Houston, TX 77007
Mr. Robert Eslerle
713-869-9358

Alb Rubber Co.
366 Somerville Ave.
Somerville, MA 02143
Mr. Al Bartolucci
617-666-8810

Elliott Glove Corp.
504 Pecor St.
Ontonio, WI 54153
Mr. Frank Elliott
414-834-5622

Apex Glove Co., Inc.
3820 W. Wisconsin Ave.
Milwaukee, WI 53202
Mr. Mel Cohen
414-344-1100

Frommelt Industries, Inc.
Box 419
Dubuque, IA 52110
Mr. Paul Frommelt
319-556-2020

Asbestos Cloth Products
766 Merchant St.
Los Angeles, CA 90021
Mr. Jack Vmetz
213-628-1341

Fyrepep Products
951 Buckeye Ave.
Newark, OH 43055
Mr. John Weaver
614-344-7430

Charkate Glove Co.
2615 123rd St.
Flushing, NY 11354
Mr. Alan Densen
212-762-2600

C. D. Genter Co.
2109 15 Broad St.
Chattanooga, TN 37408
Mr. Lloyd Ezell
615-265-4513

Globe Mfg. Co.
Pittsfield, NH 03263
Mr. Courtland Freese
603-435-8323

Kennedy-Ingalls, Inc.
3835 N. 35th Street
Milwaukee, WI 53216
Mr. Dwight Ingalls
414-445-6055

Nationwide Glove Co.
601 F. Prairie Street
Pontiac, IL 61764
Mr. Nate Applebaum
815-844-3181

Safety First Supply Co.
526 Island Ave.
McKees Rocks, PA 15136
Mr. Davis Houston
412-331-3200

Wheeler Protective Apparel, Inc.
224 W. Huron Street
Chicago, IL 60610
Mr. Hud Wheeler
312-787-1156

Be sure to specify Gentex fabrics when you place your order

Magid Glove Co.
2060 N. Klonar Ave.
Chicago, IL 60634
Mr. Rusty Cohen or Abe Cohen
312-384-2072

Pittsburgh Glove
1801 Forbes Ave.
Pittsburgh, PA 15219
Ms. Susan Caplan
412-281-9819

Sager Glove Co.
4030 N. Nashville Ave.
Chicago, IL 60606
Mr. Richard Sager
312-286-6600

Midwestern Safety Mfg. Co.
Mackinaw, IL 61755
Mr. Henry White
309-359-5811

Singer Safety Prod.
365 E. Illinois Ave.
Chicago, IL 60611
Mr. Bob Steiner
312-222-1860

Mid-West Glove Co.
2425 N. Sheffield Dr.
Chicago, IL 60639
Mr. Nate Applebaum
312-871-8700

Quaker Safety Products
Main & Juniper St.
Quakertown, PA 18951
Mr. Jim Kapsac
215-536-2991

Standard Safety Equip., Co.
431 N. Quentin Road
Palatine, IL 60067
Mr. Bob Treveiler
312-359-1400

Mine Safety Appliances
600 Penn Center Blvd.
Pittsburgh, PA 15235
Mr. Ron Ladick
412-273-5000

Ranger Safety Products, Ltd.
P.O. Box 430, Simcoe,
Ontario N3Y 4L6, Canada
Mr. Gord Jamison
519-426-1094

Steel Grip Safety Apparel
700 Garfield St.
Danville, IL 61832
Mr. Dick Minette
217-442-6240

Morning Pride Mfg. Co.
1986 Gome Ave.
Dayton, OH 45401
Mr. Larry Crillot
513-263-2683

Safety Clothing & Equip. Co.
4900 Campbell Rd.
Willoughby, OH 44094
Mr. George Hertzberger
216-946-1880

J. M. Wall Co.
1050 Ivanhoe
Cleveland, OH 44114
Mr. Bernie Gloger
216-249-2700

Knoxville Glove Co.
P.O. Box 138
Knoxville, TN 37921
Mr. Rod Townsend
615-345-5566

Ohio Valley Safety Apparel
523 N. Commercial Street
Steubenville, OH 43952
Mr. Jerry Morgan
614-283-3354

Safety Supply Co.
214 King Street, East
Toronto, Ontario M5A 1J8
Canada
Mr. Jack Gregg
416-34-3234

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DATA SHEET
CENTEX PREOX™ FABRIC
TYPE 1100-1

<u>CHARACTERISTICS</u>	<u>VALUE</u>
<u>BASE FABRIC</u>	
MATERIAL	HEAT STABILIZED POLYACRYLONITRILE
WEIGHT (oz/yd ²)	13.5
WEAVE	HERRINGBONE
<u>FINISHED FABRIC</u>	
COATING COMPOUND	GENTEX ALUMINIZING
WEIGHT (oz/yd ²)	16.0
BREAKING STRENGTH (lbs)	
GRAB METHOD	
WARP	240
FILL	180
TEAR STRENGTH (lbs)	
TONGUE METHOD	
WARP	20
FILL	18
STIFFNESS (inch/lbs)	
WARP	.033
FILL	.020
FLAME RESISTANCE	
AFTER FLAME (sec)	0
CHAR LENGTH (in.)	0.25
GLOW TIME (sec)	6.0
REFLECTIVITY (sec)	54
TIME TO REACH 140°F (sec)	12

Performance data contained herein is laboratory derived. Gentex Corporation does not, with this document, warrant the performance characteristics of Preox™ fabric, and no warranty of any type is intended or implied. It is expected that fabricators exercise necessary care in fabric selection, garment design, and manufacture, such that the intended exposure takes due account of the performance requirements.

DUP 1012022

DM 808

DU 053316

What is PreoxTM Fabric?

Preox fabric is an asbestos replacement for protective clothing that gives protection equal to or better than asbestos.

Technically, Preox fabric is made of stabilized polyacrylonitrile fiber.

Though changed from an acrylic into an equal to asbestos, Preox is still every bit a fabric. It has the kind of properties you find in an acrylic: light weight, strength, durability, stretch, and moisture retention.

Preox fabric feels like worsted wool, sews like rayon, and cools like cotton.

And when you use Preox fabric, you have an action garment that's light weight, gives superior mobility, and is extremely durable.

Where heat reflectivity is crucial, we add our exclusive Dual-MirrorTM five-ply "aluminum-mylar-aluminum-neoprene-fabric" construction.

How can something that feels so comfortable, protect so well?

Though Preox fabric matches asbestos, it is neither rock nor refractory material. It has all their advantages, none of their disadvantages. As a fabric, Preox provides comfort, flex, and drape, yet gives you something else you need in the presence of high heat: a water vapor barrier, strength retention under load, and a protective transition to carbon.

PreoxTM Fabric

DUP 1012023

DM 809

DU 053317

Hotter the temperature, better the performance.

As temperatures increase, asbestos and its widely known "replacements" lose strength.

Compared to asbestos fabric under the same temperature conditions, Preox fabric keeps its strength. Or gets stronger. Even under load.

For example: At a measured 2875°F, under steel mill computer control, molten steel was puddled onto a swatch of aluminized Preox fabric. Nothing underneath for support. Weight of the fabric: eight ounces. Weight of the steel: three pounds.

For three minutes and thirty seconds the Preox fabric supported the molten steel.

Though you may never see this happen in real life, judge for yourself how strong Preox fabric must be to take such punishment.

When Preox fabric is exposed to impulse thermal energy, like molten metal splash, a chemical change in the fabric is triggered, and the fibers in Preox fabric become extremely strong, highly protective carbon fibers. The higher the temperature, the faster the change. The carbon fibers in Preox fabric remain strong in the presence of ultra-high temperatures — even up to 5400°F in some exposures of limited duration.

And basic chemistry tells you carbon won't burn or melt in the everyday air we breathe. So Preox fabric can't burn. Or melt.

Plus, there's another protective aspect of Preox fabric of key importance: moisture regain.

The water vapor in Preox fabric provides a self-renewing thermal barrier. As Preox fabric heats, the water inside cools the fabric by acting as a heat sink. When Preox fabric cools down, water vapor is regained for the next work cycle.



DUP 1012024

DM 810

DU 053318

More for less.

Now compare two identical protective garments — except one is made of Preox fabric, the other of asbestos. Look at their work efficiency and on-the-job protection.

Work Efficiency:

Preox fabric is 100% stronger than underwriter's grade (1000-1) asbestos cloth. 100% stronger at a third less weight. Using Preox fabric means that a worker could carry almost five pounds less weight if his jacket/hood combination was made of Preox fabric rather than asbestos. Thus, the immediate benefits of using Preox fabric are employees have more freedom of movement, are more comfortable, and less clumsy. Garments made of Preox fabric also keep employees cooler and on the job longer. Without employee fatigue, production and plant safety can improve.

Protection on the job:

Asbestos offers only half the radiant heat protection of Preox fabric. When aluminized asbestos fabric and aluminized Preox fabric are compared using a 3000°F radiant heat source and test procedures specified by MIL-C-29143 (SA), it was found the non-aluminized surface of the asbestos fabric reached skin burn temperature (140°F) much faster than Preox fabric.

Molten metal splash protection? Preox fabric is unmatched. Preox fabric mounted alone on a wooden frame held a three pound puddle of molten steel at 2875°F for three and a half minutes. Plus Preox fabric also did better than asbestos in the steel industry-accepted molten metal splash test.



DUP 1012025

DM 8/1

DU 053319

Passed with flying colors.

The superior protective properties of Preox fabric have been proved two ways:

First, at the steel mills, with their extreme temperature conditions. Molten steel was poured on Preox fabric mounted, without any support, on wooden test frames.

Frames were made at 70°, 45°, and 30° angles to simulate various body angles such as a worker bending an elbow, raising a knee, or bending his back. We even had a flat frame that was 6 inches off the ground to simulate the worst possible accident. Three pounds of molten steel, at a measured 2875°F, was poured on the Preox fabric samples. The molten steel simply ran down the fabric, off the frame, and when examined, the Preox fabric had retained its integrity, no burns, no holes. And the three pounds of molten steel puddled on the flat frame was held for three and a half minutes.

The second molten metal splash test was performed at an independent laboratory.

Under controlled conditions, two pounds of molten steel at 2850°F $\pm$ 25°F, was placed in a ladle suspended over a metal frame angled at 70 degrees. On the frame had been placed a wooden board with a thick copper calorimeter located at the exact point of molten metal contact. The thermocouples inside the calorimeter were monitored by computer.

A layer of standard 12 ounce durably treated cotton fabric was clipped to the frame, and on top, aluminized side up, the Preox fabric. The electronically controlled ladle was pivoted and in one-half second the two pounds of white hot steel dropped 18 inches onto the Preox fabric.

In comparison with asbestos and other fabrics, Preox fabric was the only one that didn't burn or scorch the cotton backing material.



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All the facts together.

With people saying asbestos and carcinogen in the same breath, everyone brought out an asbestos replacement.

Only Gentex has an asbestos equal for protective clothing.
Preox fabric.

All the protection of asbestos. And more.

- Strong space-age fiber
- Engineered textile
- Can't burn, won't melt in air we breathe
- Resists molten steel
- Makes up well into action garments
- Cool and light to wear
- High seam strength
- Durable
- Flexible
- Cost effective

 **Gentex**
Preox Fabric